

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:
providing a plurality of individual image areas in an electronic programming guide (EPG) display;

~~receiving a plurality of video streams user selection corresponding to video programming channels a selected channel;~~
~~detecting a first video stream corresponding to a first the selected video programming channel;~~
~~capturing a first portion of plurality of snapshots from the first video stream;~~
~~identifying a first snapshot from the plurality of snapshots captured from the video stream;~~
~~converting the first snapshot captured portion of the first video stream into a first reduced resolution thumbnail video stream; image of real time programming;~~
displaying a graphical representation of a polyhedron in a first of the individual image areas; and
~~displaying the first reduced resolution thumbnail video stream image of real time programming on a side of the graphical representation of the polyhedron in the first of the individual image areas, wherein the reduced image is associated with the selected channel.~~

2-16. (Canceled)

17. (Currently Amended) An apparatus comprising:

~~a tuner configured to tune to a selected channel and to receive a video stream; and~~
~~a shutter function, configured to capture a plurality of snapshots from the video stream;~~
~~an image improver, configured to identify a first snapshot from the plurality of snapshots captured from the video stream; and~~
~~an electronic programming guide component a display configured to:~~

display an electronic programming guide (EPG) comprising a plurality of individual image areas;

receive a plurality of video streams corresponding to video programming channels;

detect a first video stream corresponding to a first selected video programming channel;

capture a first portion of the first video stream;

convert the first captured portion of the first video stream into a first reduced resolution thumbnail video stream;

display a graphical representation of a polyhedron in a first of the individual image areas; and

display the first resolution thumbnail video stream snapshot on a side of the graphical representation of the polyhedron in the first individual image area, wherein the first snapshot is associated with the selected channel.

18-30. (Canceled)

31. (Currently Amended) One or more computer-readable media storing computer-executable instructions, that when executed on a computer, cause the computer to perform a method comprising:

providing a plurality of individual image areas in an electronic programming guide (EPG) display;

receiving a plurality of video streams ~~user selection~~ corresponding to video programming channels ~~a selected channel~~;

detecting a first video stream corresponding to a first ~~the~~ selected video programming channel;

capturing a first portion of plurality of snapshots from the first video stream;

~~identifying a first snapshot from the plurality of snapshots captured from the video stream;~~

converting the first ~~snapshot~~ captured portion of the first video stream into a first reduced resolution thumbnail video stream; ~~image of real time programming;~~

displaying a graphical representation of a polyhedron in a first of the individual image areas; and

displaying the first reduced resolution thumbnail video stream ~~image of real time programming~~ on a side of the graphical representation of the polyhedron in the first of the individual image areas, ~~wherein the reduced image is associated with the selected channel.~~

32-51. (Canceled)

52. (Currently Amended) The method of claim 1, wherein ~~capturing identifying~~ the first portion of the first ~~snapshot~~ from the plurality of snapshots captured from the video stream comprises detecting a scene change in the first video stream ~~corresponding to the selected channel.~~

53. (Currently Amended) The method of claim 1, wherein displaying the graphical representation of the polyhedron comprises rendering a plurality of reduced ~~resolution thumbnail video streams images of real time programming~~ on different sides of the polyhedron, wherein each of the plurality of reduced ~~resolution thumbnail video streams images of real time programming~~ corresponds to a ~~snapshot~~ from a different channel, and wherein the different sides of the polyhedron are rendered on different portions of the electronic programming guide (EPG) display, the different portions being simultaneously visible and having different sizes and shapes in the electronic programming guide (EPG) display.

54. (Currently Amended) The apparatus of claim 17, further comprising a scene change detector configured to detect a scene change in the first video stream, wherein the ~~electronic programming guide component image improver~~ is configured to ~~capture identify~~ the first portion of the first video stream ~~snapshot~~ based on a scene change detected in the first video stream.

55. (Currently Amended) The apparatus of claim 17, wherein displaying the graphical representation of the polyhedron comprises rendering a plurality of reduced resolution thumbnail video streams snapshots on different sides of the polyhedron, wherein each of the plurality of reduced resolution thumbnail video streams snapshots corresponds to a different channel, and wherein the different sides of the polyhedron are rendered on different portions of the electronic programming guide (EPG), the different portions being simultaneously visible and having different sizes and shapes in the electronic programming guide (EPG).

56. (Previously Presented) The method of claim 1, wherein each side of the polyhedron corresponds to a different video channel having a different video stream, the method further comprising:

receiving a user command to rotate the graphical representation of the polyhedron; and
updating the EPG display by rotating the graphical representation of the polyhedron so that one of the different selected channels is displayed in the first of the individual image areas.

57. (Previously Presented) The method of claim 56, wherein each of the different video channels corresponding to the different sides of the polyhedron is a video channel selected by a user for displaying on the polyhedron, and wherein the video channels selected for displaying on the polyhedron are a subset of a larger number of video channels available to the user via the electronic programming guide.

58. (Previously Presented) The method of claim 56, wherein each of the different video channels corresponding to the different sides of the polyhedron is a preselected video channel selected by a head-end administrator of the electronic programming guide.

59. (Previously Presented) The apparatus of claim 17, wherein each side of the polyhedron corresponds to a different video channel having a different video stream, wherein the apparatus further comprises a receiver configured to receive a user command to rotate the graphical representation of the polyhedron, and wherein the display is further configured to update the

display by rotating the graphical representation of the polyhedron so that one of the different selected channels is displayed in the first individual image area.

60. (Previously Presented) The apparatus of claim 59, wherein each of the different video channels corresponding to the different sides of the polyhedron is a video channel selected by a user for displaying on the polyhedron, and wherein the video channels selected for displaying on the polyhedron are a subset of a larger number of video channels available to the user via the electronic programming guide.

61. (Previously Presented) The apparatus of claim 59, wherein each of the different video channels corresponding to the different sides of the polyhedron is a preselected video channel selected by a head-end administrator of the electronic programming guide.

62. (Previously Presented) The method of claim 1, further comprising:
receiving a user command to perform at least one of moving the graphical representation of the polyhedron and resizing the graphical representation of the polyhedron; and
updating the EPG display in response to the user command, the updating comprising at least one of:

moving the graphical representation of the polyhedron to a different one of the individual image areas in the display of the electronic programming guide, and
· changing the size of the graphical representation of the polyhedron within the display of the electronic programming guide.

63. (Previously Presented) The apparatus of claim 17, the apparatus further comprising:
a receiver configured to receive a user command to perform at least one of moving the graphical representation of the polyhedron and resizing the graphical representation of the polyhedron,
wherein the display is further configured to update the display in response to the user command, the updating comprising at least one of:

moving the graphical representation of the polyhedron to a different one of the individual image areas in the display of the electronic programming guide, and
changing the size of the graphical representation of the polyhedron within the display of the electronic programming guide.

64. (Previously Presented) The computer-readable media of claim 31, the method further comprising:

receiving a user command to perform at least one of moving the graphical representation of the polyhedron and resizing the graphical representation of the polyhedron; and

updating the EPG display in response to the user command, the updating comprising at least one of:

moving the graphical representation of the polyhedron to a different one of the individual image areas in the display of the electronic programming guide, and

changing the size of the graphical representation of the polyhedron within the display of the electronic programming guide.

65. (New) The method of claim 1, wherein said displaying comprises displaying a plurality of graphical representations of polyhedrons in the individual image areas in the electronic programming guide, wherein each of the plurality of graphical representations of polyhedrons includes at least one reduced resolution thumbnail video stream displayed on a side of the graphical representation of the polyhedron.

66. (New) The method of claim 65, wherein each of the plurality of graphical representations of polyhedrons corresponds to a different set of video programming channels.

67. (New) The method of claim 1, wherein displaying the first reduced resolution thumbnail video stream comprises using a graphics accelerator to map the pixels of the first reduced resolution thumbnail video stream onto the side of the graphical representation of the polyhedron.

68. (New) The apparatus of claim 17, wherein said displaying comprises displaying a plurality of graphical representations of polyhedrons in the individual image areas in the electronic programming guide, wherein each of the plurality of graphical representations of polyhedrons includes at least one reduced resolution thumbnail video stream displayed on a side of the graphical representation of the polyhedron.

68. (New) The apparatus of claim 68, wherein each of the plurality of graphical representations of polyhedrons corresponds to a different set of video programming channels.

70. (New) The apparatus of claim 17, wherein displaying the first reduced resolution thumbnail video stream comprises using a graphics accelerator to map the pixels of the first reduced resolution thumbnail video stream onto the side of the graphical representation of the polyhedron.

71. (New) The computer-readable media of claim 31, wherein said displaying comprises displaying a plurality of graphical representations of polyhedrons in the individual image areas in the electronic programming guide, wherein each of the plurality of graphical representations of polyhedrons includes at least one reduced resolution thumbnail video stream displayed on a side of the graphical representation of the polyhedron.

72. (New) The computer-readable media of claim 71, wherein each of the plurality of graphical representations of polyhedrons corresponds to a different set of video programming channels.